INTERNATIONAL STANDARD

ISO 11111-3

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Textile machinery — Safety requirements —

Part 3: Nonwoven machinery

AMENDMENT 2

iTeh STANDARD PREVIE - Exigences de sécurité - Stratie 3: Machines de production de nontissés

AMENDEMENT 2 ISO 11111-3:2005/Amd 2:2016

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is ISO/TC 72, Textile machinery and accessories, Subcommittee SC 8, Safety requirements for textile machinery.

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Page v, Introduction

Replace "ISO 12100-1" in the 3rd paragraph with "ISO 12100".

Replace "ISO 14121-1" in the 5th paragraph with "ISO 12100".

Page 1, Scope

Add the following sentence as the second paragraph:

This part of ISO 11111 is complemented by the type C standards ISO 9902-series with respect to noise emission measurement and ISO 23771 with respect to measures for the reduction of noise emissions. (standards.iteh.ai)

Pages 1 to 4, Clauses 1 to 7

Throughout the text, replace all the dated references 15001111-1:2005" with "ISO 11111-1:2016". https://standards.iteh.ai/catalog/standards/sist/c61cdab0-add8-425f-811d-

Replace all the dated references to **%ISO-11111-2:2005**^m with 6</sup> ISO 11111-2:2005 (as amended by ISO 11111-2:2005/Amd.1:2009 and ISO 11111-2:2005/Amd.2:2016)^m.

Replace all the dated references to "ISO 11111-6:2005" with "ISO 11111-6:2005 (as amended by ISO 11111-6:2005/Amd.1:2009 and ISO 11111-6:2005/Amd.2:2016)".

Replace all the dated references to "ISO 11111-7:2005" with "ISO 11111-7:2005 (as amended by ISO 11111-7:2005/Amd.1:2009 and ISO 11111-7:2005/Amd.2:2016)".

Page 1, Clause 2 Normative references

Add ISO 23771 as follows:

ISO 23771, Textile machinery — Design measures for reduction of the noise emissions from textile machinery

Page 4

Add a new clause "5.5 Spunlace machines" after 5.4 as follows:

5.5 Spunlace machines

Spunlaced machines process a web by means of a high-pressure water jet flow to tangle the fibres.

General safety requirements

The safety requirements and/or measures shall be in accordance with <u>Table 2</u>.

Application	Reference ISO 11111-1:2016
All machines:	
Electrical equipment in general	5.4.2.1 and 5.4.2.2
Electrical control system	5.4.2.3
Starting and stopping	5.4.2.4
Reduction of risks by design	5.3.2
Reduction of risks by safeguarding device	5.3.3
— with guards	Table 2
— with safety devices	Table 3
Mechanical hazards	5.4.3
Fluid system and elements	5.4.5
Noise	5.4.7, 7, 8.2
Ergonomics	5.4.13
Devices for special operation	5.5
Elevated operating positions and servicing positions	5.6
Fitting of parts	5.8
Particular machine elements: NDARD	PREVIEW
Drive and transmission enclosures	6.2
Rollers (Standards.It)	en.al) 6.5
Rotating shafts	6.6
Running wheels	$\frac{2:2016}{61cdab0_{-add8}-425f_{-811d_{-}}}$
Doors and lids 040a884299fb/iso-11111-3-2005-amd-2-20166.8	
Observation window	6.9
Conveyors	6.10
Fans	6.11
Working platforms and walkways on machines, work areas adjacent to tanks and pits	6.13
Automatic machines and equipment	6.21

Table 2 — General safety requirements relating to spunlace machines

Specific hazards

Mechanical danger from the water jets, the jet strips, the compression web, the bottom web, the conveyor web and the drive roller, especially the danger of squeezing, cutting, winding or plunging, or puncture.

Specific risks

Occasional access during normal operation, particularly entering wet ground, cleaning or removal of fibres while the machine is at rest, leading to a low probability of medium injury.

Occasional access during special operation, in particular threading up, leading to a medium probability of severe injury.

Specific safety requirements

To prevent access to the danger zones, fixed enclosing guards shall be provided (e.g. a casing for the entire machine). Where necessary, the casing shall be designed as movable guards, to allow access at standstill (e.g. one or several doors or a roll-up door with interlocking device and guard locking at operating side).

If certain operations (e.g. threading up) cannot be carried out with the machinery at standstill, the measures for safe execution of this operations shall be defined in accordance with ISO 11111-1: 2016, 5.5. In this mode it shall not be possible to activate the high pressure water jet. To avoid risks by lifting and lowering of injector or rollers in this mode, they shall be operated only with a hold-to-run-control if movable guard is open. If the option "reduced running speed combined with an emergency stop device" [ISO 11111-1:2016, 5.5 d)] is needed (e.g. threading up), an emergency stop device shall be easily accessible for the operator in every working position. This usually requires several emergency stop devices. The kind of devices (e.g. pushbuttons, rope switch, safety edges) and their optimal positions shall be determined in the risk assessment.

Page 5, Bibliography

Delete the first reference and replace the second reference with the following:

ISO 12100, Safety of machinery — General principles for design — Risk assessment and risk reduction

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